

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09 583,171	05/30/2000	Teruhisa Tsuru	P 1071-993	1225	
7.	590 04 01 2003				
Keating & Bennett, LLP 10400 Eaton Place Suite 312			EXAMINER		
			GLENN, KIMBERLY E		
Fairfax, VA 2	2030		ART UNIT	PAPER NUMBER	
			2817		
			DATE MAILED: 04/01/2003	DATE MAILED: 04/01/2003	
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Please find below and/or attached an Office communication concerning this application or proceeding.

••		Application No		Applicant(s)				
Office Action Summary		09/583,171		TSURU ET AL.				
		Examiner		Art Unit				
		Kimberly E Gler		2817				
	The MAILING DATE of this communication app	pears on the cove	er sheet with the co	orrespondence add	iress			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM								
THE N - Exter after - If the - If NO - Failui - Any r earne	MAILING DATE OF THIS COMMUNICATION. Isions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patient term adjustment. See 37 CFR 1.704(b).	36(a). In no event, how	vever, may a reply be tim inimum of thirty (30) days s SIX (6) MONTHS from to become ABANDONEI	ely filed s will be considered timely the mailing date of this co O (35 U.S.C. § 133).	mmunication.			
Status	Responsive to communication(s) filed on 19 l	December 2002						
1)⊠ 2a)☑		nis action is non-						
·	,			osecution as to the	e merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
	on of Claims							
	Claim(s) 9-14,16 and 17 is/are pending in the							
_	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)								
6)⊡	Claim(s) <u>9-14,16 and 17</u> is/are rejected.							
7)								
•	Claim(s) are subject to restriction and/o	or election requi	ement.					
	ion Papers The specification is objected to by the Examine	or						
•	The specification is objected to by the Examination The drawing(s) filed on is/are: a) acceptable and acceptable acceptable and acceptable and acceptable and acceptable and acceptable and acceptable and acceptable acceptable and acceptable acceptable and acceptable acceptable and acceptable and acceptable acceptable and acceptable acceptable acceptable and acceptable acceptable and acceptable		cted to by the Exa	miner.				
10)[_]								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
	under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
·	1. Certified copies of the priority documents have been received.							
	2 Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
;	a) The translation of the foreign language po Acknowledgment is made of a claim for domes	rovisional applic	ation has been re	ceived.				
Attachme		-						
2) 🚺 Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) [5) [<u>11</u> . 6) [Notice of Informal	ry (PTO-413) Paper No Patent Application (PT				

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DETAILED ACTION

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 9-11 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Mandai et al US Pat. 5,187,455. (Of record)

Mandai et al disclose a multilayer structure formed by laminating a plurality of dielectric layers (1 through 4); a transmission line 6 form on a dielectric layer 3 embedded it the multilayer structure; a plurality of ground conductors (5 and 7) disposed on the dielectric layers and a pair of ground conductors (5 and 7) being disposed on opposite sides of the transmission line and a capacitance (C1 and C2) disposed on the multilayer structure and connected to the transmission line for setting a desired delay time of the delay line ,wherein the capacitance is adjustable. Electrodes (11 and 12) formed on the respective ones of the dielectric layers provide the capacitance. The capacitance is provided by a variable capacitor. The capacitance is connected in parallel to the transmission line. (Figures 2, 5 and 9 and column 3 line 19 through column 4 line 67 specifically column 3 lines 42-60)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 12, 13, 14 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mandai et al US Pat 5,187,455. (Of record)

The primary reference, Mandai et al teach a multilayer structure formed by laminating a plurality of dielectric layers (1 through 4); a transmission line 6 form on a dielectric layer 3 embedded it the multilayer structure; a plurality of ground conductors (5 and 7) disposed on the dielectric layers and a pair of ground conductors (5 and 7) being disposed on opposite sides of the transmission line and a capacitance (C1 and C2) disposed on the multilayer structure and connected to the transmission line for setting a desired delay time of the delay line. The capacitance is connected in parallel to the transmission line.

Mandai et al is shown to teach all the limitations of the claim with the exceptions of the capacitance being a diode or varicap diode.

One skilled in the art, at the time of the invention, would have found it obvious to replace the general capacitance electrodes of Mandai et al with a diode or varicap diode since examiner takes notice of the equivalence of the general capacitance electrode and the diode or varicap diode for their use in the transmission line art and the selection of any of these known equivalents to provide capacitance would be within ordinary skill in the art.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly E Glenn whose telephone number is (703) 306-5942. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (703) 308-4909. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Kimberly E Glenn Examiner

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keg

March 25, 2003

Robert Pascai

Supervisory Patent Examiner Technology Center 2800